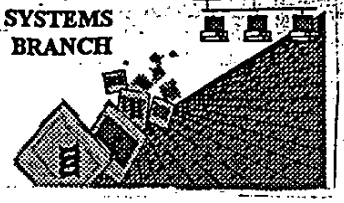
OIPE JC71
JUN 18 2002
PATENT

09/091,166
0326

BIOTECHNOLOGY SYSTEMS BRANCH



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Application Serial Number: 10/091,166
Source: OIPE
Date Processed by STIC: 3/20/02

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Revised 01/29/2002

OIPE

Does Not Comply
Corrected Diskette Needed

Error on p. 3 throughout

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/091,166

DATE: 03/20/2002
TIME: 16:27:03

Input Set : A:\97-44D1.txt
Output Set: N:\CRF3\03202002\J091166.raw

```
     5 <110> APPLICANT: Adler, David A.
     6       Holloway, James L.
     7       Baindur, Nand
     8       Beigel-Orme, Stephanie
     9       Sheppard, Paul O.
    11 <120> TITLE OF INVENTION: NOVEL BETA-DEFENSINS
    14 <130> FILE REFERENCE: 97-44C1
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/091,166
C--> 16 <141> CURRENT FILING DATE: 2002-03-05
    16 <150> PRIOR APPLICATION NUMBER: 60/058,335
    17 <151> PRIOR FILING DATE: 1997-10-09
    19 <150> PRIOR APPLICATION NUMBER: 60/064,294
    20 <151> PRIOR FILING DATE: 1997-11-05
    22 <150> PRIOR APPLICATION NUMBER: 09/150,786
    23 <151> PRIOR FILING DATE: 1998-09-10
    25 <160> NUMBER OF SEQ ID NOS: 72
    27 <170> SOFTWARE: FastSEQ for Windows Version 3.0
    29 <210> SEQ ID NO: 1
    30 <211> LENGTH: 219
    31 <212> TYPE: DNA
    32 <213> ORGANISM: Homo sapiens
    34 <220> FEATURE:
    35 <221> NAME/KEY: CDS
    36 <222> LOCATION: (1)...(195)
    38 <400> SEQUENCE: 1
    39  atg agg atc cat tat ctt ctg ttt gct ttg ctc ttc ctg ttt ttg gtg      48
    40  Met Arg Ile His Tyr Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val
W--> 41  1               5                  10                  15
    43  cct gtt cca ggt cat gga gga atc ata aac aca tta cag aaa tat tat      96
    44  Pro Val Pro Gly His Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr
W--> 45              20                  25                  30
    47  tgc aga gtc aga ggc ggc cgg tgt gct gtg ctc agc tgc ctt cca aag     144
    48  Cys Arg Val Arg Gly Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys
W--> 49          35                  40                  45
    51  gag gaa cag atc ggc aag tgc tcg acg cgt ggc cga aaa tgc tgc cga     192
    52  Glu Glu Gln Ile Gly Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg
W--> 53      50                  55                  60
    54  aga aagaaataaa aaccctgaaa catg                                     219
    55  Arg
    56  65
    59 <210> SEQ ID NO: 2
    60 <211> LENGTH: 65
    61 <212> TYPE: PRT
```

Amino acid numbering is misaligned
FYI: pls use space bar, not tab key

RAW SEQUENCE LISTING DATE: 03/20/2002
PATENT APPLICATION: US/10/091,166 TIME: 16:27:03

Input Set : A:\97-44D1.txt
Output Set: N:\CRF3\03202002\J091166.raw

```
     62 <213> ORGANISM: Homo sapiens
     64 <400> SEQUENCE: 2
     65  Met Arg Ile His Tyr Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val
     66   1               5                  10                  15
     67  Pro Val Pro Gly His Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr
     68              20                  25                  30
     69  Cys Arg Val Arg Gly Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys
     70          35                  40                  45
     71  Glu Glu Gln Ile Gly Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg
     72      50                  55                  60
     73  Arg
     74  65
     76 <210> SEQ ID NO: 3
     77 <211> LENGTH: 31
     78 <212> TYPE: PRT
     79 <213> ORGANISM: Artificial Sequence
     81 <220> FEATURE:
     82 <223> OTHER INFORMATION: Cysteine motif of the Beta-defensin family
     84 <221> NAME/KEY: VARIANT
     85 <222> LOCATION: (2)...(7)
     86 <223> OTHER INFORMATION: Xaa2 is independently any amino acid residue,
     87       preferably not cysteine.
     88       Xaa3 is independently any amino acid residue,
     89       preferably not cysteine.
W--> 90       Xaa4 is independently any amino acid residue,
W--> 91       preferably not cysteine.
W--> 92       Xaa5 is independently any amino acid residue,
W--> 93       preferably not cysteine.
W--> 94       Xaa6 is independently any amino acid residue,
W--> 95       preferably not cysteine.
W--> 96       Xaa7 is independently any amino acid residue,
W--> 97       preferably not cysteine.
     99 <221> NAME/KEY: VARIANT
     100 <222> LOCATION: (9)...(12)
     101 <223> OTHER INFORMATION: Xaa9 is independently any amino acid residue,
     102       preferably not cysteine.
     103       Xaa10 is independently any amino acid residue,
     104       preferably not cysteine.
W--> 105      Xaa11 is independently any amino acid residue,
W--> 106      preferably not cysteine.
W--> 107      Xaa12 is independently any amino acid residue,
W--> 108      preferably not cysteine.
     110 <221> NAME/KEY: VARIANT
     111 <222> LOCATION: (14)...(20)
     112 <223> OTHER INFORMATION: Xaa14 is independently any amino acid residue,
     113       preferably not cysteine.
     114       Xaa15 is independently any amino acid residue,
     115       preferably not cysteine.
W--> 116      Xaa16 is independently any amino acid residue,
```

Moved no. of lines exceeded

Some

RAW SEQUENCE LISTING DATE: 03/20/2002
PATENT APPLICATION: US/10/091,166 TIME: 16:27:03

Input Set : A:\97-44D1.txt
Output Set: N:\CRF3\03202002\J091166.raw

W--> 117 preferably not cysteine.
W--> 118 Xaa17 is independently any amino acid residue,
W--> 119 preferably not cysteine.
W--> 120 Xaa18 is independently any amino acid residue,
W--> 121 preferably not cysteine.
W--> 122 Xaa19 is independently any amino acid residue,
W--> 123 preferably not cysteine.
W--> 124 Xaa20 is independently any amino acid residue,
W--> 125 preferably not cysteine.
127 <221> NAME/KEY: VARIANT
128 <222> LOCATION: (22)...(22)
129 <223> OTHER INFORMATION: Xaa is any amino acid residue, preferably not
130 cysteine
132 <221> NAME/KEY: VARIANT
133 <222> LOCATION: (24)...(29)
134 <223> OTHER INFORMATION: Xaa24 is independently any amino acid residue,
135 preferably not cysteine.
136 Xaa25 is independently any amino acid residue,
137 preferably not cysteine.
W--> 138 Xaa26 is independently any amino acid residue,
W--> 139 preferably not cysteine.
W--> 140 Xaa27 is independently any amino acid residue,
W--> 141 preferably not cysteine.
W--> 142 Xaa28 is independently any amino acid residue,
W--> 143 preferably not cysteine.
W--> 144 Xaa29 is independently any amino acid residue,
W--> 145 preferably not cysteine.
147 <400> SEQUENCE: 3
W--> 148 Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa
149 1 5 10 15
W--> 150 Xaa Xaa Xaa Xaa Gly Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Cys
151 20 25 30
153 <210> SEQ ID NO: 4
154 <211> LENGTH: 213
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Degenerate nucleotide encoding the polypeptide of
160 SEQ ID NO:2
162 <221> NAME/KEY: variation
163 <222> LOCATION: (1)...(213)
164 <223> OTHER INFORMATION: Nucleotides 12, 15, 21, 24, 27, 33, 39, 42, 45,
165 48, 51, 54, 60, 63, 75, 78, 98, 99, 100, 106, 109,
166 112, 115, 118, 121, 127, 130, 133, 136, 142, 145,
167 163, 172, 175, 178, 181, 184, 196, and 199 are
W--> 168 each independently A, T, G or C.
170 <400> SEQUENCE: 4
W--> 171 athcaytayy tnytnttygc nytnytntty ytnttyytng tnccngtncc nggncayggn 60
W--> 172 ggnathatha ayacnytnca raartrrnnn tgymgngtnm gnggnggnmg ntgygcngtn 120

same

same

88, 89, 90, 96, 99, etc.

Numbering is off by 10 count

RAW SEQUENCE LISTING DATE: 03/20/2002
PATENT APPLICATION: US/10/091,166 TIME: 16:27:03

Input Set : A:\97-44D1.txt
Output Set: N:\CRF3\03202002\J091166.raw

```
W--> 173  ytnwsntgyy tnccnaarga rgarcarath ggnaartgyw snacnmgngg nmgnaartgy     180
W--> 174  tgymgnmgna araartrraa rccntrraay atg                                 213
     176 <210> SEQ ID NO: 5
     177 <211> LENGTH: 20
     178 <212> TYPE: DNA
     179 <213> ORGANISM: Artificial Sequence
     181 <220> FEATURE:
     182 <223> OTHER INFORMATION: Oligonucleotide ZC14741
     184 <400> SEQUENCE: 5
     185  gagcacttgc cgatctgttc                                                   20
     187 <210> SEQ ID NO: 6
     188 <211> LENGTH: 20
     189 <212> TYPE: DNA
     190 <213> ORGANISM: Artificial Sequence
     192 <220> FEATURE:
     193 <223> OTHER INFORMATION: Oligonucleotide ZC14740
     195 <400> SEQUENCE: 6
     196  ccaggtcatg gaggaatcat                                                   20
     198 <210> SEQ ID NO: 7
     199 <211> LENGTH: 18
     200 <212> TYPE: DNA
     201 <213> ORGANISM: Artificial Sequence
     203 <220> FEATURE:
     204 <223> OTHER INFORMATION: Oligonucleotide ZC14780
     206 <400> SEQUENCE: 7
     207  ggaggaatca taaacaca                                                     18
     209 <210> SEQ ID NO: 8
     210 <211> LENGTH: 18
     211 <212> TYPE: DNA
     212 <213> ORGANISM: Artificial Sequence
     214 <220> FEATURE:
     215 <223> OTHER INFORMATION: Oligonucleotide ZC14776
     217 <400> SEQUENCE: 8
     218  gccgatctgt tcctcctt                                                     18
     220 <210> SEQ ID NO: 9
     221 <211> LENGTH: 438
     222 <212> TYPE: DNA
     223 <213> ORGANISM: Homo sapiens
     225 <220> FEATURE:
     226 <221> NAME/KEY: CDS
     227 <222> LOCATION: (220)...(420)
     229 <400> SEQUENCE: 9
     230  acaaatccat agggagctct gccttaccat tgggttccta attaactgag tgagtgggtg     60
     231  tgttctgcat ggtgagaggc attggaatga tgcatcagaa aacatgtcat aatgtcatca    120
     232  ctgtaatatg acaagaattg cagctgtggc tggaaccttt ataaagtgac caagcacacc    180
     233  ttttcatcca gtctcagcgt ggggtgaagc ctagcagct atg agg atc cat tat       234
     234                                          Met Arg Ile His Tyr
     235                                           1               5
     237  ctt ctg ttt gct ttg ctc ttc ctg ttt ttg gtg cct gtt cca ggt cat      282
```

RAW SEQUENCE LISTING DATE: 03/20/2002
PATENT APPLICATION: US/10/091,166 TIME: 16:27:03

Input Set : A:\97-44D1.txt
Output Set: N:\CRF3\03202002\J091166.raw

```
 238  Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val Pro Val Pro Gly His
 239                  10                  15                  20
 241  gga gga atc ata aac aca tta cag aaa tat tat tgc aga gtc aga ggc      330
 242  Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr Cys Arg Val Arg Gly
 243               25                  30                  35
 245  ggc cgg tgt gct gtg ctc agc tgc ctt cca aag gag gaa cag atc ggc      378
 246  Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys Glu Glu Gln Ile Gly
 247           40                  45                  50
 249  aag tgc tcg acg cgt ggc cga aaa tgc tgc cga aga aag aaa              420
 250  Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg Arg Lys Lys
 251       55                  60                  65
 253  taaaaaccct gaaacatg                                               438
 255 <210> SEQ ID NO: 10
 256 <211> LENGTH: 67
 257 <212> TYPE: PRT
 258 <213> ORGANISM: Homo sapiens
 260 <400> SEQUENCE: 10
 261  Met Arg Ile His Tyr Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val
 262   1               5                  10                  15
 263  Pro Val Pro Gly His Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr
 264              20                  25                  30
 265  Cys Arg Val Arg Gly Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys
 266          35                  40                  45
 267  Glu Glu Gln Ile Gly Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg
 268      50                  55                  60
 269  Arg Lys Lys
 270  65
 272 <210> SEQ ID NO: 11
 273 <211> LENGTH: 219
 274 <212> TYPE: DNA
 275 <213> ORGANISM: Artificial Sequence
 277 <220> FEATURE:
 278 <223> OTHER INFORMATION: Degenerate nucleotide sequence encoding the
 279       polypeptide of SEQ ID NO:10
 281 <221> NAME/KEY: variation
 282 <222> LOCATION: (1)...(219)
 283 <223> OTHER INFORMATION: Nucleotides 6, 18, 21, 27, 30, 33, 39, 45, 48, 51,
 284       54, 57, 60, 66, 69, 81, 84, 94, 95, 96, 102, 105,
 285       108, 111, 114, 117, 123, 126, 129, 132, 138, 141,
 286       159, 168, 171, 174, 177, 180, 192, 195, and 210
W--> 287       are each independently A, T, C, or G.
 289 <400> SEQUENCE: 11
W--> 290  atgmgnathc aytayytnyt nttygcnytn ytnttyytnt tyytngtncc ngtnccnggn      60
W--> 291  cayggnggna thathaayac nytncaraar trrnnntgym gngtnmgngg nggnmgntgy     120
W--> 292  gcngtnytnw sntgyytncc naargargar carathggna artgywsnac nmgnggnmgn     180
W--> 293  aartgytgym gnmgnaaraa rtrraarccn trraayatg                           219
 295 <210> SEQ ID NO: 12
 296 <211> LENGTH: 21
 297 <212> TYPE: DNA
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VERIFICATION SUMMARY DATE: 03/20/2002
PATENT APPLICATION: US/10/091,166 TIME: 16:27:04

Input Set : A:\97-44D1.txt
Output Set: N:\CRF3\03202002\J091166.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:41 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:45 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:49 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:53 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:90 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:91 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:92 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:93 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:94 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:95 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:96 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:97 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:105 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:106 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:107 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:108 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:116 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:117 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:118 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:119 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:120 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:121 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:122 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:123 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:124 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:125 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:138 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:139 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:140 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:141 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:142 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:143 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:144 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:145 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:168 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:287 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11

VERIFICATION SUMMARY DATE: 03/20/2002
PATENT APPLICATION: US/10/091,166 TIME: 16:27:04

Input Set : A:\97-44D1.txt
Output Set: N:\CRF3\03202002\J091166.raw

L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
L:1059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:1079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
L:1179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:1197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61
L:1217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:1237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
L:1257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64
L:1277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:1297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:1317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67
L:1337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:1355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:1373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:1391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71